

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 08218157
PUBLICATION DATE : 27-08-96

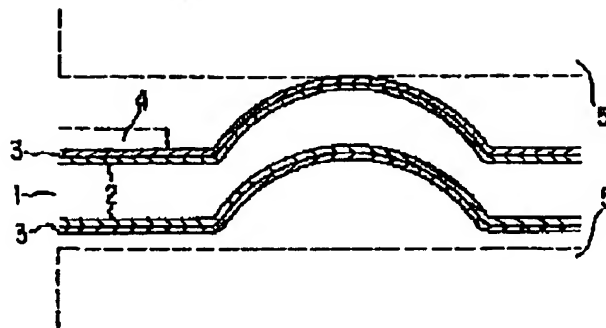
APPLICATION DATE : 10-02-95
APPLICATION NUMBER : 07023231

APPLICANT : NIPPON STEEL CORP;

INVENTOR : SATO EIJI;

INT.CL. : C23C 2/12 C22C 38/00 C22C 38/40
C22C 38/58 C23C 2/26 C23C 2/28
F16J 15/08

TITLE : METAL GASKET EXCELLENT IN
DURABILITY AND ITS PRODUCTION



ABSTRACT : PURPOSE: To develop a gasket material for car engines excellent in durability by forming an Al alloy layer of specified composition on the surface of a stainless steel plate and further forming a rubber base coating film on the surface adjusted to specified hardness.

CONSTITUTION: After an Al alloy plating layer 2 contg. 1-20wt.% Si is formed on the surface of a quasistable austenite stainless steel plate 1 by a hot-dipping method, by combining cold rolling and heat treatment, the hardness of the stainless plate 1 is adjusted to Hv 400-600, and also the thickness of the Al alloy plating layer is made 0.1-20 μ m. Next, after the stainless steel plate having the Al alloy plating layer is blanked into a prescribed shape for producing gaskets to form beads, a coating film 3 by a rubber base coating material is applied to the surface of the plating layer 2 in order to further secure sealability to produce a metal gasket. A metal gasket having excellent crack resistance to a hot water atmosphere for car engines or the like is obtained.

COPYRIGHT: (C)1996,JPO